

Ethernet Wireline Bandwidth Needs

Industry Connections (Individual Process)

Activity Initiation Document

Version: 1.0 (Approved), 18 Jan 2011

[[Instructions

- Note: Any text surrounded by double square brackets [[]] should be replaced appropriately (and the brackets removed) in the final document, or may be deleted if so allowed. These instructions may be deleted.
- The version number above, along with the date, may be used to distinguish successive updates of the document. The file name associated with the document should also be updated accordingly.
- The status should indicate “Draft”, “For Member Approval”, “For Sponsor/BOG Approval”, or “Approved”, as appropriate.
- The Name of New IC Activity and Version information provided above will automatically update the corresponding page headers and footers (upon printing or print preview). However, the font and size of the substituted text in the headers and footers may need to be manually corrected.]]

1. Background and Purpose

[[Briefly explain the motivation behind starting this IC activity, and the overall purpose or goal to be accomplished. Include a comparison to any existing, related efforts (industry associations, consortia, standardization activities, etc.), or existing, related standards.

- If an existing related standard has been identified and the Sponsor is still active, its name [[SponsorName]] shall be entered below. Prior to the approval of the start of the activity, approval from that Sponsor shall be obtained.]]

During the IEEE P802.3ba 40Gb/s and 100Gb/s Ethernet project, it was observed that core networking and computing applications were growing at different rates, driving the need to develop the two new wireline Ethernet speeds. The focus of this IC activity will be to perform an appraisal of future “Ethernet Wireline Bandwidth Needs” of applications within the Ethernet eco-system.

Related Standard – IEEE Std 802.3-2008 and IEEE Std 802.3ba-2010
Related Sponsor – IEEE 802

2. Charter and Scope

Within the IEEE Standards Association (IEEE-SA), the Ethernet Wireline Bandwidth Needs activity will be overseen by the IEEE-SA Board of Governors (BOG) and IEEE 802. The charter of Ethernet Wireline Bandwidth Needs focuses its activities as follows:

- [[Through a series of points or sentences, outline what types of work will be undertaken by this IC activity, clarifying what is in (and what is out of) scope.]]

The scope of this IC will focus on gathering information that will enable an evaluation of the bandwidth needs for Ethernet wireline applications, including, but not limited to, core networking and computing. This evaluation will then enable the generation of a white paper(s) and related presentations on the future bandwidth needs of Ethernet wireline applications, which can then be used for future reference by an appropriate related standards activity.

3. Potential Markets Served

[[Indicate the main beneficiaries of this work, and what the potential impact might be. This is an optional section that may be omitted if already covered under Background and Purpose.]]

The potential beneficiaries of this work would be those individuals involved in future Ethernet wireline standards targeting higher speeds than those that currently exist. The beneficiaries of these efforts identified to date are expected to include but are not limited to: users and producers of systems and components for servers, network storage, networking systems, high performance computing, telecommunications carriers, and multiple system operators (MSOs).

4. Proposed Deliverables

[[Outline the anticipated deliverables and output from this IC activity, such as documents, proposals for standards, conferences and workshops, databases, computer code, etc.]]

This evaluation will then enable the generation of a white paper(s) and related presentations on the future bandwidth needs of Ethernet wireline applications, which can then be used for future reference by an appropriate related standards activity.

5. Funding Requirements

[[Outline any additional contracted services or other expenses that are currently anticipated, beyond the basic support services provided to all IC activities.]]

Web / Reflector

6. Initial Members

[[Indicate the stakeholders that are expected to be interested in this IC activity, and provide a list of the initial members (below) that will be participating from the outset. It is recommended there be at least five initial members, each with a different affiliation.]]

The initial members in Ethernet Wireline Bandwidth Needs are the following:

Individual	Contact Info	Employer	Affiliation
John D'Ambrosia	7701 Aynlee Way Harrisburg, PA 17112 jdambrosia@ieee.org 717.460.8535	Force10 Networks	Force10 Networks
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Revision History:

Revision Number	Author/Editor	Date
0.1 (For Sponsor & BOG Approval)	John D'Ambrosia	23 Nov 2010
1.0 (Approved)	James Wendorf (IEEE)	18 Jan 2011